

State of Connecticut, Department of Public Health
Drinking Water Section, Drinking Water State Revolving Fund (DWSRF)
ENVIRONMENTAL ASSESSMENT CHECKLIST

Date:	January 22, 2013	Staff Contact:	Eric McPhee
Applicant PWS Name:	New London Dept. of Public Utilities	Town:	Waterford
DPH DWSRF Project #:	2012 0950011a	PWSID:	CT0950011
Project Name:	Lake Konomoc Intake Pump Station—Phase 2		
Funding Source:	Drinking Water State Revolving Fund (DWSRF)		
State Funds:	\$ 6,000,000.00		

This assessment is being conducted in conformance to the generic Environmental Classification Document for Connecticut state agencies to determine Connecticut Environmental Policy Act (CEPA) obligations

Project Description: The City of New London proposes to construct an emergency intake pump station at the Lake Konomoc site, adjacent to its Lake Konomoc Water Treatment Plant. The intake pump station has been designed to operate under flow conditions equal to that of the existing water treatment plant, which pumps at an average flow rate of 9 MGD of raw water and has a peak capacity of 12 MGD.

The Lake Konomoc Intake Pump Station project was divided into two phases in March 2002 in order to fast track the project in response to a contemporaneous water supply emergency. Phase 1 of the project involved the installation of the stainless steel, passive intake screen and 36-inch HDPE intake pipe project and was completed in May 2003. Phase 2 will consist of the construction of the permanent intake pump station structure, and the lying and connection of the discharge pipe to the existing water treatment plant

Regulations of Connecticut State Agencies (RCSA) Section 22a-1a-3 Determination of environmental significance (direct/indirect)

1. Impact on air and water quality or on ambient noise levels
 - a. Air Quality – The proposed project is not expected to cause significant adverse air quality effects.
 - b. Water Quality - If any water mains are to be tested and disinfected, the discharge would be covered by the *General Permit for the Discharge of Hydrostatic Pressure Testing Wastewater* (DEP-PERD-GP-011).
 - c. Ambient Noise Levels - The proposed project is not expected to cause significant noise in the immediate area;
2. Impact on a public water supply or serious effects on groundwater, flooding, erosion, or sedimentation

- a. Water Supply - The project area is located within the public drinking water supply source water area of Lake Konomoc. The New London Dept. of Public Utilities has applied for and received a water company land change in use permit pursuant to Connecticut General Statutes Section 25-32. The application materials submitted for review and the conditions imposed by DPH Permit Number 2002-14 demonstrate that this project will not have a significant adverse impact to the present and future purity and adequacy of this source of drinking water. In addition, it is noted that utilizing this new lower intake structure may require modifications to the water treatment plant operations in order to maintain adequate finished water quality due to the raw water characteristics found at this lower elevation within Lake Konomoc. Any physical treatment modifications of sanitary significance will require DPH approval per RCSA Section 19-13-B102(d)(2).
 - b. Groundwater - The proposed project is not expected to cause significant impacts to neighboring groundwater.
 - c. Flooding - Based on the comments received from the Department of Energy and Environmental Protection (DEEP), the pump station location is within Zone X on the community's Flood Insurance Rate Map. Because it is not a critical activity as defined in section 25-68b(4) of the Connecticut General Statutes (CGS), construction of the pump station does not have to be certified by DPH as being in compliance with flood and stormwater management standards.
 - d. Erosion or Sedimentation - In order to protect any wetlands and watercourses adjacent to the site, strict erosion and sediment controls should be employed during construction.
3. Effect on natural land resources and formations, including coastal and inland wetlands, and the maintenance of in-stream flows – The New London Dept. of Public Utilities has received a determination from the Waterford Conservation Commission dated May 28, 2002, that a permit authorization is not required for this project. The New London Dept. of Public Utilities has also received authorization to conduct the proposed project per United States Army Corps of Engineers Permit #NAE-2011-2174. Permit conditions will ensure that there will be no significant impact to the natural land resources and formations.
 4. Disruption or alteration of an historic, archeological, cultural or recreational building, object, district, site or surroundings - The proposed project is not expected to cause negative impacts.
 5. Effect on natural communities and upon critical species of animal or plant and their habitats: interference with the movement of any resident or migratory fish or wildlife species - Based on the comments from DEEP -Wildlife Division, the project would not impact extant populations of Federally listed endangered or threatened species or species listed in the State Natural Diversity Data Base, pursuant to section 26-306 of the CGS, as endangered, threatened or special concern in the project area.
 6. Use of pesticides, toxic or hazardous materials or any other substance in such quantities as to create extensive detrimental environmental impact - No significant impact expected.

7. Substantial aesthetic or visual effects - The project construction is expected to be completed in a short period of time. Due to the nature and timeframe of the project construction, the project is not expected to cause substantial aesthetic or visual impacts in the area.
8. Inconsistency with the written and/or mapped policies of the statewide Plan of Conservation and Development and such other plans and policies developed or coordinated by the Office of Policy and Management or other agency - No significant impact expected.
9. Disruption or division of an established community or inconsistency with adopted municipal or regional plans- No significant impact expected.
10. Displacement or addition of substantial numbers of people - No significant impact expected.
11. Substantial increase in congestion (traffic, recreational, other) – The proposed project is not expected to create substantial traffic congestion in the area. The Town will provide personnel to maintain traffic rules and public safety in the area.
12. A substantial increase in the type or rate of energy use as a direct or indirect result of the action - No significant impact expected.
13. The creation of a hazard to human health or safety - The project is not expected to create significant public hazard and safety.
14. Any other substantial impact on natural, cultural, recreational or scenic resources - No significant impact expected.

Conclusions:

Based on the comments provided by the DEEP dated January 3, 2013, it has been determined that the proposed water main extension project does not require the preparation of Environmental Impact Evaluation under CEPA. The DPH will coordinate the project with the New London Dept. of Public Utilities to ensure that the DEEP's recommendations will be implemented.

Recommendations:

If the pump station is to be operated outside of a water supply emergency declared pursuant to section 22a-378 of the Connecticut General Statutes (CGS), a diversion permit will be required from the Inland Water Resources Division (IWRD) pursuant to Section 22a-377(c)-1(c)(1) of the Regulations of Connecticut State Agencies. For further information, contact IWRD at 860-424-3019.

Stormwater discharges from construction sites where one or more acres are to be disturbed require a permit pursuant to 40 CFR 122.26. The Permitting & Enforcement Division has issued a *General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities* (DEP-PERD-GP-015) that will cover these discharges. For projects disturbing five or more acres, registration describing the site and the construction activity must be submitted to the Department prior to the initiation of construction.

Additional recommendations are included in the DPH Water Company Land Change in Use Permit Number 2002-14 and the DPH Approval for Construction or Installation of Water and Treatment Works dated January 18, 2013. These have been transmitted to the New London Department of Public Utilities directly.